

RESOUNDIFY

RC-702

POE Cascading Omnidirectional Digital Array Microphone Built-in 6 mics to form a circular array microphone



PRODUCT OVERVIEW

The **Resoundify RC-702** — POE Cascading Omnidirectional Digital Array Microphone

The RC-702 is a high-performance omnidirectional digital array microphone designed for professional conferencing and collaboration environments. Equipped with six built-in microphones arranged in a circular array, it ensures 360° voice pickup with exceptional clarity. Its PoE (Power over Ethernet) capability enables easy installation and scalability through cascading multiple units, making it ideal for large meeting rooms, boardrooms, and smart conferencing setups.

With PoE (Power over Ethernet) support, the RC-702 simplifies installation by transmitting both power and audio data over a single network cable, reducing clutter and complexity. Its cascading capability allows multiple microphones to be linked together seamlessly, extending coverage for larger rooms without sacrificing audio quality.

KEY FEATURES

- **360° Omnidirectional Pickup** : Captures voices from all directions using a high SNR microphone array for crystal-clear sound.
- **Intelligent Audio Processing** : Built-in DSP algorithms for automatic noise reduction, echo cancellation, automatic gain control, and voice optimization.
- **PoE (Power over Ethernet)** : Delivers power and data through a single cable for simplified installation and clean setup.
- **Six-Microphone Cascading** : Supports up to six interconnected microphones with coverage up to 150m² for large meeting spaces.
- **Blind Beamforming Technology** : Automatically focuses on active speakers and adapts to room acoustics for improved clarity.
- **Flexible Installation Options** : Desktop placement or ceiling suspension for fast, neat deployment with reduced maintenance.
- **Scalable Conference Setup** : Easily expandable for small to large rooms without sacrificing performance.
- **Wide Frequency Response** : Ensures natural, full-spectrum voice reproduction.
- **Low Latency Transmission** : Maintains real-time audio sync for video conferencing.
- **Modern Aesthetic Design** : Sleek, professional look that complements any meeting room interior.

APPLICATIONS

- Boardrooms
- Classrooms
- Auditorium

TECHNICAL SPECIFICATIONS

System Specifications

Model	RC-702
Product Name	Cascading Omnidirectional Digital Array Microphone
Supported Platforms	Windows, Mac, Linux
Installation Methods	Desktop flat mount, ceiling mount
Application Scenarios	Conference rooms, boardrooms, training rooms, classrooms, huddle spaces

Technical Specifications

Type	Digital array microphone
Array Configuration	6 omnidirectional microphones in a circular array for full 360° pickup
Sensitivity	-38 dBFS
Signal-to-Noise Ratio (SNR)	65 dB(A)
Frequency Response	50 Hz - 16 kHz
Sampling Rate	32 kHz, high-definition broadband audio
Pickup Distance	Up to 3 meters
Echo Cancellation	Supported
Noise Suppression	Supported
Automatic Gain Control	Supported
Cascade Mode	PoE cable
Maximum Units	Up to 6 microphones
Coverage Area	Up to 150m ² with full cascade
Network Ports	RJ45 upstream and downstream networking ports
USB Interface	USB Type-C, UAC1.0 protocol for audio data, firmware upgrades, and parameter configuration
Analog Audio	AUX1 & AUX2 linear audio input/output
PoE	48V IEEE 802.3at standard via cascade
USB Power	5V / 500mA (single unit)

Mechanical Specifications

Dimensions	Φ170 mm × H40 mm
Net Weight	370 g
Body Design	Low-profile, modern round design for minimal visual obstruction
Color	Professional matte finish